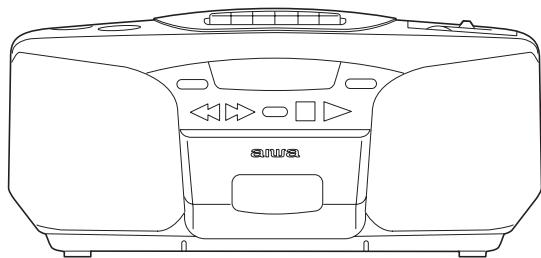




CSD-A110 CSD-A170

U(S)
LH(S)



SERVICE MANUAL

COMPACT DISC RADIO
CASSETTE RECORDER

- BASIC TAPE MECHANISM : ZZM-1 YR2NF
- BASIC CD MECHANISM : DA11T3C

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
CSD-A110 U(S)/A170 LH(S)(S/M Code No. 09-003-342-2T1).

aiwa
S/M Code No. 09-003-342-2R1

REVISION
DATA

SPECIFICATIONS

U MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna,
AM: 530 - 1,710 kHz Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape:
50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system —
Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner
(semiconductor laser)

General

Speaker — 100 mm cone type (2) / Output — Headphones jack (stereo
mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms, T.H.D. 10%) /
Power requirements — DC 12 V using eight size C (R14) batteries, AC
120 V, 60 Hz / Power consumption — 15 W / Dimensions — 420 (W) x
185 (H) x 250 (D) mm (16⁵/₈ x 7³/₈ x 9⁷/₈ in.) / Weight — 3.45 kg (7 lbs.
10 oz.) (excluding batteries)

- Design and specifications are subject to change
without notice.

LH MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna,
AM: 530 - 1,710 kHz Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape:
50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system —
— Magnet erase / Heads — Recording/playback head (1), Erasure head
(1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical
scanner (semiconductor laser)

General

Speaker — 100 mm cone type (2) / Output — Headphones jack
(stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms,
T.H.D. 10%), 1.9 W + 1.9 W (DIN 1% Rated Power) / Power
requirements — DC 12 V using eight size C (R14) batteries, AC 110 -
120 V/220 - 240 V switchable, 50/60 Hz / Power consumption — 14 W
/ Dimensions — 420 (W) x 185 (H) x 250 (D) mm / Weight — 3.45 kg
(excluding batteries)

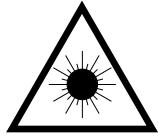
- Design and specifications are subject to change
without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylit-täälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskriker gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

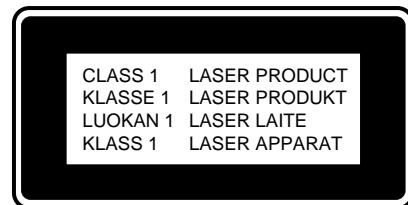
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

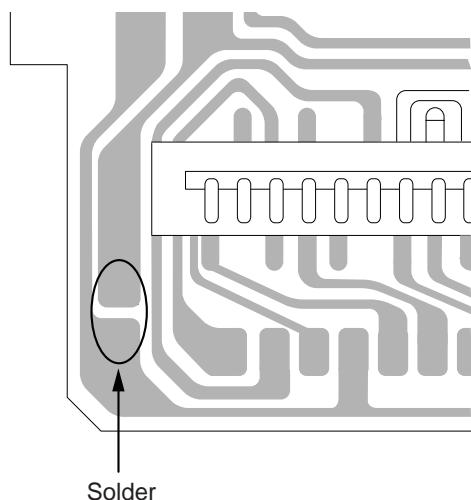


Precaution to replace Optical block

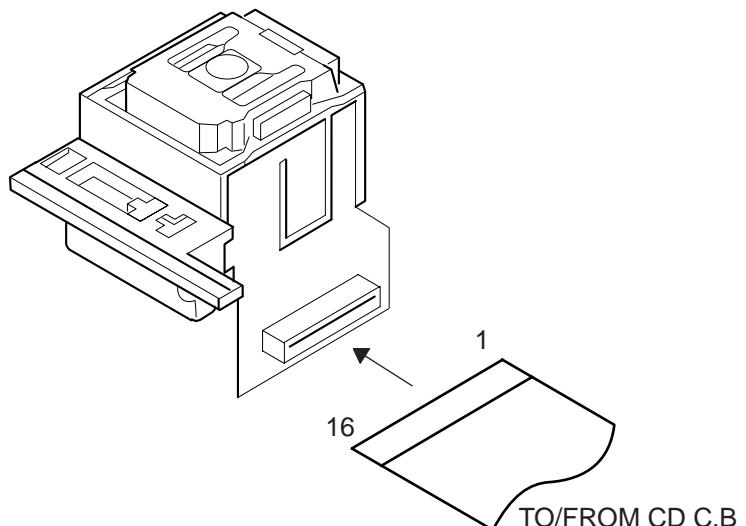
(SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.



PICK UP ASSY
SF-P101NR



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C809	87-010-405-080	CAP, ELECT 10-50V	
87-A20-955-010	IC,LA1828			C810	87-010-401-080	CAP, ELECT 1-50V	
87-A21-064-010	IC,LA4227			C811	87-010-178-080	CHIP CAP 1000P	
87-A21-520-040	C-IC,M61509FP			C812	87-010-178-080	CHIP CAP 1000P	
87-A20-446-010	C-IC,LA9241ML			C816	87-010-180-080	C-CER 1500P	
87-A20-459-010	C-IC,LC78622ED			C817	87-010-180-080	C-CER 1500P	
87-A21-093-010	IC,LA6541D			C821	87-010-401-080	CAP, ELECT 1-50V	
8A-CD9-610-010	C-IC,LC865516A-5P16			C822	87-010-401-080	CAP, ELECT 1-50V	
87-A20-650-010	IC,RPM6938-V11<A170 LH<S>>			C823	87-010-178-080	CHIP CAP 1000P	
87-A21-431-010	IC,BA4560N			C824	87-010-178-080	CHIP CAP 1000P	
TRANSISTOR				C829	87-010-178-080	CHIP CAP 1000P	
89-327-143-080	TR,2SC2714 (0.1W)			C830	87-010-178-080	CHIP CAP 1000P	
87-026-447-080	TR,2SC1740S R			C833	87-018-195-080	CAP, CER 1200P-16V	
87-026-463-080	TR,2SA933S (0.3W)			C834	87-010-248-080	CAP, ELECT 220-10V	
87-026-213-080	CHIP-TR,DTC114YK			C835	87-010-322-080	C-CAP,S 100P-50 CH	
89-112-965-080	TR,2SA1296 (0.75W)			C836	87-010-322-080	C-CAP,S 100P-50 CH	
87-026-291-080	TR,DTC124XS			C843	87-010-197-080	CAP, CHIP 0.01 DM	
89-213-702-010	TR,2SB1370 (1.8W)			C844	87-018-124-080	CAP, CER 270P-50V	
87-026-462-080	TR,2SC1740 S(RS 0.3W)			C845	87-010-178-080	CHIP CAP 1000P	
89-318-154-080	TR,2SC1815 (0.4W)			C846	87-010-263-080	CAP, ELECT 100-10V	
89-109-332-380	TR,2SA933RS			C851	87-010-186-080	CAP,CHIP 4700P	
89-113-187-080	TR,2SA1318TU			C852	87-010-178-080	CHIP CAP 1000P	
87-026-295-080	TR,DTC144TK			C853	87-018-211-080	CAP, CER 0.01-50<A170 LH<S>>	
87-026-237-080	CHIP-TR,DTC124XK<A170 LH<S>>			C853	87-A11-145-080	CAP,TC U 0.01-50 Z F<A110 U<S>>	
89-317-403-080	TR,2SC1740S			CN201	87-099-018-010	CONN,16P	
87-026-239-080	TR,DTC114TK (0.2W)			CN801	87-A60-110-010	CONN,4P V S2M-4W	
87-026-464-080	TR,DTC114TS (0.3W)			CNA302	8A-CDA-629-010	CONN ASSY,6P MA-TU	
				CNA801	8A-CD9-630-010	CONN ASSY, 4P RPH	
				L801	87-007-342-010	COIL,OSC 85K BIAS	
				SW801	8Z-CD9-609-010	SW,SL 1-6-2 PS62D01	
DIODE				CD C.B			
87-020-465-080	DIODE,1SS133 (110MA)			C30	87-010-260-080	CAP, ELECT 47-25V	
87-A40-128-080	C-VARI-CAP,HVU202A			C261	87-010-402-080	CAP, ELECT 2.2-50V	
87-027-399-080	ZENER,HZ7A3L (200MA)<A170 LH<S>>			C262	87-010-402-080	CAP, ELECT 2.2-50V	
87-A40-509-080	ZENER,MTZJ6.8C<A110 U<S>>			C263	87-010-178-080	CHIP CAP 1000P	
87-070-345-080	DIODE,IN4148			C264	87-010-178-080	CHIP CAP 1000P	
87-A40-648-080	ZENER,MTZJ8.2A			C265	87-010-263-080	CAP, ELECT 100-10V	
87-017-978-080	DIODE,1N4003			C266	87-010-263-080	CAP, ELECT 100-10V	
87-017-932-080	ZENER,MTJ6.2B<A110 U<S>>			C267	87-010-112-080	CAP, ELECT 100-16V	
87-A40-465-010	DIODE,FR202			C268	87-010-112-080	CAP, ELECT 100-16V	
				C271	87-010-237-080	CAP, ELECT 1000-16V	
MAIN C.B				C272	87-010-237-080	CAP, ELECT 1000-16V	
C211	87-A11-603-080	CAP, S 0.15-16<A170 LH<S>>		C278	87-010-405-080	CAP, ELECT 10-50V	
C212	87-A11-603-080	CAP, S 0.15-16<A170 LH<S>>		▲C301	87-016-495-000	CAP,E 3300-25 M SMG	
C215	87-016-460-080	C-CAP,S 0.22-16 B		C306	87-010-404-080	CAP, ELECT 4.7-50V	
C216	87-016-460-080	C-CAP,S 0.22-16 B		C307	87-010-401-080	CAP, ELECT 1-50V	
C231	87-010-213-080	C-CAP,S 0.015-50 B		C308	87-010-221-080	CAP, ELECT 470-10V	
C232	87-010-213-080	C-CAP,S 0.015-50 B		C311	87-010-263-080	CAP, ELECT 100-10V	
C233	87-A10-201-080	C-CAP,S 0.33-16 KB		C312	87-010-385-080	CAP, ELECT 220-25V	
C234	87-A10-201-080	C-CAP,S 0.33-16 KB		C321	87-010-197-080	CAP, CHIP 0.01 DM	
C235	87-016-669-080	C-CAP,S 0.1-25 KB		C322	87-010-263-080	CAP, ELECT 100-10V	
C236	87-016-669-080	C-CAP,S 0.1-25 KB		C325	87-010-405-080	CAP, ELECT 10-50V	
C237	87-010-371-080	CAP, ELECT 470-6.3V		C401	87-010-403-080	CAP, ELECT 3.3-50V	
C239	87-010-197-080	CAP, CHIP 0.01 DM		C402	87-010-197-080	CAP, CHIP 0.01 DM	
C239	87-010-805-080	CAP, S 1-16<A110 U<S>>		C403	87-010-263-080	CAP, ELECT 100-10V	
C240	87-010-197-080	CAP, CHIP 0.01 DM		C404	87-010-248-080	CAP, ELECT 220-10V	
C240	87-010-805-080	CAP, S 1-16<A110 U<S>>		C406	87-010-374-080	CAP, ELECT 47-10V	
C247	87-010-401-080	CAP, ELECT 1-50V		C407	87-010-178-080	CHIP CAP 1000P	
C248	87-010-401-080	CAP, ELECT 1-50V		C408	87-010-198-080	CAP, CHIP 0.022	
C310	87-010-248-080	CAP, ELECT 220-10V		C409	87-010-248-080	CAP, ELECT 220-10V	
C316	87-010-263-080	CAP,E 100-10		C410	87-010-263-080	CAP, ELECT 100-10V	
C317	87-010-197-080	CAP, CHIP 0.01 DM		C411	87-A11-177-080	C-CAP,S 0.15-16 KB	
C801	87-010-248-080	CAP, ELECT 220-10V		C412	87-010-401-080	CAP, ELECT 1-50V	
C805	87-012-365-080	C-CAP,S 0.027-25VBK		C413	87-016-369-080	C-CAP,S 0.033-25 B K	
C806	87-012-365-080	C-CAP,S 0.027-25VBK		C414	87-010-405-080	CAP, ELECT 10-50V	
C807	87-010-405-080	CAP, ELECT 10-50V		C416	87-010-545-080	CAP, ELECT 0.22-50V	
C808	87-010-405-080	CAP, ELECT 10-50V		C417	87-012-157-080	C-CAP,S 330P-50 CH	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C418	87-010-213-080	C-CAP,S 0.015-50 B		CN401	87-A60-424-010	CONN,16P V TOC-B	
C419	87-A11-608-080	C-CAP,S 0.33-25 K B		CN403	87-099-201-010	CONN,8P 6216 H	
C420	87-016-369-080	C-CAP,S 0.033-25 B K		CN802	8A-CH4-687-010	CONN,4P V 2.5	
C421	87-A11-177-080	C-CAP,S 0.15-16 K B		CNA205	8A-CD9-626-010	CONN ASSY, 2P DOOR	
C422	87-010-184-080	CHIP CAPACITOR 3300P(K)		CNA402	8A-CDA-625-010	CONN ASSY,6P CD-ME	
C423	87-010-992-080	C-CAP,S 0.047-25 B		CNA802	8A-CD9-631-010	CONN ASSY, 4P TP-ME	
C424	87-A11-606-080	C-CAP,S 0.22-25 K B		L401	87-003-102-080	COIL, 10UH	
C425	87-010-176-080	C-CAP,S 680P-50 SL		L404	87-003-152-080	COIL, 100UH	
C426	87-A11-608-080	C-CAP,S 0.33-25 K B		R840	87-029-124-010	RES,FUSE 2.2-1/4	
C428	87-010-197-080	CAP, CHIP 0.01 DM		SFR430	87-024-437-080	SFR100K,RH063EC	
C429	87-010-186-080	CAP,CHIP 4700P		X401	8Z-CD5-633-010	VIB, CER16.93MHZ FCR16.93M2	
C430	87-012-156-080	C-CAP,S 220P-50 CH		FRONT C.B			
C431	87-010-545-080	CAP, ELECT 0.22-50V		C601	87-010-313-080	CAP, CHIP 18P	
C432	87-010-374-080	CAP, ELECT 47-10V		C602	87-010-315-080	C-CAP,S 27P-50 CH	
C433	87-010-401-080	CAP, ELECT 1-50V		C603	87-010-319-080	C-CAP,S 56P-50 CH	
C434	87-010-184-080	CHIP CAPACITOR 3300P(K)		C604	87-010-317-010	CHIP CAP,S 39P CH	
C435	87-010-197-080	CAP, CHIP 0.01 DM		C605	87-010-264-040	CAP,E 100-10 5L	
C436	87-010-374-080	CAP, ELECT 47-10V		C606	87-012-368-080	C-CAP,S 0.1-50 F	
C437	87-010-404-080	CAP, ELECT 4.7-50V		C607	87-015-779-010	CHIP CAPACITOR, 0.01	
C438	87-016-669-080	C-CAP,S 0.1-25 K B		C608	87-010-415-080	CAP,E SRE 10-50V<A110 U<S>>	
C439	87-010-178-080	CHIP CAP 1000P		C608	87-010-405-080	CAP,E ELECT 10-50V<A170 LH<S>>	
C441	87-010-197-080	CAP, CHIP 0.01 DM		C609	87-010-400-080	CAP,E 0.47-50V<A170 LH<S>>	
C442	87-010-313-080	CAP, CHIP 18P		C609	87-010-493-080	CAP,E 0.47-50 GAS<A110 U<S>>	
C444	87-012-368-080	C-CAP,S 0.1-50 F		C610	87-010-178-010	CAP,S 1000P-50<A170 LH<S>>	
C445	87-012-368-080	C-CAP,S 0.1-50 F		C611	87-A10-189-040	CAP,E 220-10	
C446	87-012-368-080	C-CAP,S 0.1-50 F		C612	87-010-405-080	CAP,E ELECT 10-50V<A170 LH<S>>	
C447	87-012-368-080	C-CAP,S 0.1-50 F		C613	87-012-368-080	C-CAP,S 0.1-50 F	
C448	87-010-315-080	C-CAP,S 27P-50 CH		C614	87-010-312-080	C-CAP,S 15P-50 CH	
C450	87-012-140-080	CAP 470P		CN601	87-099-033-010	16P 6216 H<A170 LH<S>>	
C451	87-012-156-080	C-CAP,S 220P-50 CH		CN601	87-099-757-010	CONN,16P 9604S F<A110 U<S>>	
C455	87-010-247-080	CAP, ELECT 100-50V		CN602	87-A60-079-010	CONN,08P H 9604S-08F<A110 U<S>>	
C457	87-010-312-080	C-CAP,S 15P-50 CH		CN602	87-099-201-010	CONN,8P 6216 H<A170 LH<S>>	
C458	87-010-312-080	C-CAP,S 15P-50 CH		CNA604	8A-CDA-623-010	CONN ASSY,7P KEY	
C459	87-010-263-080	CAP, ELECT 100-10V		L601	87-003-102-080	COIL, 10UH	
C460	87-015-819-080	CAPACITOR,0.01		LED602	88-CD6-630-010	LED,934ID RED	
C461	87-010-197-080	CAP, CHIP 0.01 DM		LED608	88-CD6-630-010	LED,934ID RED	
C462	87-010-248-080	CAP, ELECT 220-10V		LED610	88-CD6-631-010	LED,934GD GRN	
C463	87-010-197-080	CAP, CHIP 0.01 DM		LED611	87-CD8-616-010	LED,SA36-11 HWA-11.0	
C465	87-010-404-080	CAP, ELECT 4.7-50V		S601	87-A91-704-080	SW,TACT EVQ 214 05R<A110 U<S>>	
C466	87-012-368-080	C-CAP,S 0.1-50 F		S601	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>	
C467	87-010-263-080	CAP, ELECT 100-10V		S602	87-A91-704-080	SW,TACT EVQ 214 05R<A110 U<S>>	
C469	87-012-154-080	C-CAP,S 150P-50 CH		S602	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>	
C470	87-010-544-080	CAP, ELECT 0.1-50V		S603	87-A91-704-080	SW,TACT EVQ 214 05R<A110 U<S>>	
C471	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z		S603	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>	
C472	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z		S604	87-A91-704-080	SW,TACT EVQ 214 05R<A110 U<S>>	
C473	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z		S604	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>	
C474	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z		S605	87-A91-704-080	SW,TACT EVQ 214 05R<A110 U<S>>	
C475	87-010-197-080	CAP, CHIP 0.01 DM		S605	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>	
C476	87-010-236-080	CAP,E 1000-10 SME		S604	87-A91-704-080	SW,TACT EVQ 214 05R<A110 U<S>>	
C477	87-010-197-080	CAP, CHIP 0.01 DM		S604	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>	
C478	87-010-263-080	CAP, ELECT 100-10V		S605	87-A91-704-080	SW,TACT EVQ 214 05R<A110 U<S>>	
C479	87-010-197-080	CAP, CHIP 0.01 DM		S605	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>	
C480	87-010-221-080	CAP, ELECT 470-10V		S609	87-A91-704-080	SW,TACT EVQ 214 05R<A110 U<S>>	
C481	87-010-405-080	CAP, ELECT 10-50V		S609	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>	
C482	87-010-405-080	CAP, ELECT 10-50V		S611	87-A91-704-080	SW,TACT EVQ 214 05R<A110 U<S>>	
C489	87-012-368-080	C-CAP,S 0.1-50 F		S611	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>	
C490	87-012-368-080	C-CAP,S 0.1-50 F		X601	87-030-273-010	VIB,XTAL 32.768K5PPM	
C491	87-010-197-080	CAP, CHIP 0.01 DM		X602	87-030-376-080	VIB,CER CSA5.76MG200	
C492	87-010-221-080	CAP, ELECT 470-10V		TUNER C.B			
C494	87-010-197-080	CAP, CHIP 0.01 DM		C1	87-010-314-080	C-CAP,S 22P-50V	
C501	87-012-368-080	C-CAP,S 0.1-50 F		C2	87-010-316-080	C-CAP,S 33P-50 CH	
C502	87-010-322-080	C-CAP,S 100P-50 CH		C3	87-010-314-080	C-CAP,S 22P-50V	
C503	87-010-322-080	C-CAP,S 100P-50 CH		C4	87-010-148-080	CAP, CHIP S 75P SL	
C504	87-010-322-080	C-CAP,S 100P-50 CH		C5	87-010-378-080	CAP, ELECT 10-16V	
C505	87-010-322-080	C-CAP,S 100P-50 CH		C7	87-012-156-080	C-CAP,S 220P-50 CH	
C506	87-010-322-080	C-CAP,S 100P-50 CH		C9	87-010-311-080	CAP 12P	
C510	87-016-669-080	C-CAP,S 0.1-25 K B		C11	87-010-152-080	C-CAP,S 8P-50 CH	
C831	87-010-198-080	CAP, CHIP 0.022		C12	87-010-314-080	C-CAP,S 22P-50V	
CN202	8A-CH4-689-010	CONN,3P V 2.5		C13	87-010-322-080	C-CAP,S 100P-50 CH	
CN205	87-A60-109-010	CONN,2P V S2M-2W					
CN301	8A-CH4-689-010	CONN,3P V 2.5					

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C15	87-016-669-080	C-CAP,S 0.1-25 K B	VOLSEL C.B<A170 LH<S>>				
C16	87-010-178-080	CHIP CAP 1000P					
C17	87-016-669-080	C-CAP,S 0.1-25 K B		△FC901	87-033-213-010	CLAMP,FUSE SMK<A170 LH<S>>	
C18	87-010-198-080	CAP, CHIP 0.022		△FC902	87-033-213-010	CLAMP,FUSE SMK<A170 LH<S>>	
C19	87-016-669-080	C-CAP,S 0.1-25 K B		△F901	87-035-347-010	FUSE,2.5A 250V T<A170 LH<S>>	
C20	87-010-400-080	CAP, ELECT 0.47-50V					
C21	87-010-403-080	CAP, ELECT 3.3-50V					
C26	87-012-358-080	C-CAP,S 0.47-10 F Z					
C27	87-012-358-080	C-CAP,S 0.47-10 F Z					
C28	87-010-992-080	C-CAP,S 0.047-25 B					
C29	87-010-992-080	C-CAP,S 0.047-25 B					
C30	87-010-248-080	CAP, ELECT 220-10V					
C31	87-010-379-080	CAP, ELECT 22-16V					
C36	87-010-263-080	CAP, ELECT 100-10V					
C38	87-010-197-080	CAP, CHIP 0.01 DM					
C51	87-010-197-080	CAP, CHIP 0.01 DM					
CF1	87-A90-128-010	FLTR,AM IF CFAL-455					
CF2	87-008-261-010	FILTER, SFE10.7MA5-A					
CF3	87-008-261-010	FILTER, SFE10.7MA5-A					
CN2	87-A60-116-010	CONN,6P H S2M-6WR					
L2	87-A50-560-010	COIL,FM BPF(ACD)					
L3	8A-CD9-660-010	BAR-ANT,MW 2B-ACD(COI)					
L4	87-A50-562-010	COIL,FM RF EX(ACD)					
L6	87-A50-337-010	COIL,AM OSC (TOKO)					
L7	87-A50-579-010	COIL,AM IFT(ACD)					
L8	87-A50-335-010	COIL,FM IFT (TOKO)					
L9	87-A50-577-010	COIL,FM DET(ACD)					
L10	87-005-849-080	COIL,10UH(CECS)					
S1	87-A91-548-010	SW,SL-2-3 SK23E01G06					
VC1	87-A91-167-010	TUN-CAP,20P-160P FA-22125 N000					

HP C.B

CN204	87-A60-685-010	CONN,4P H WHT EH
CN605	87-A60-117-010	CONN,7P H S2M-7WR
CNA203	8A-CDA-628-010	CONN ASSY,4P MA-HP
J251	87-A60-569-010	JACK,HTJ-035-18
LED606	88-CD6-630-010	LED,934ID RED
LED607	88-CD6-630-010	LED,934ID RED
S606	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>
S607	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>
S608	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>
S614	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>
S615	87-A90-696-080	SW,TACT TS2103-03-430<A170 LH<S>>

BATT1 C.B

C901	87-010-192-080	C-CAP,S 0.022-50 F
C902	87-010-192-080	C-CAP,S 0.022-50 F
C903	87-010-192-080	C-CAP,S 0.022-50 F
C904	87-010-192-080	C-CAP,S 0.022-50 F
CNA901	8A-CDA-627-010	CONN ASSY,3P PWR
△PR901	87-A90-092-080	PROTECTOR,2.5A 491<A170 LH<S>>
SP901	87-CD6-213-010	SPR-C,BATT (-)
SP902	87-CD6-213-010	SPR-C,BATT (-)

BATT2 C.B

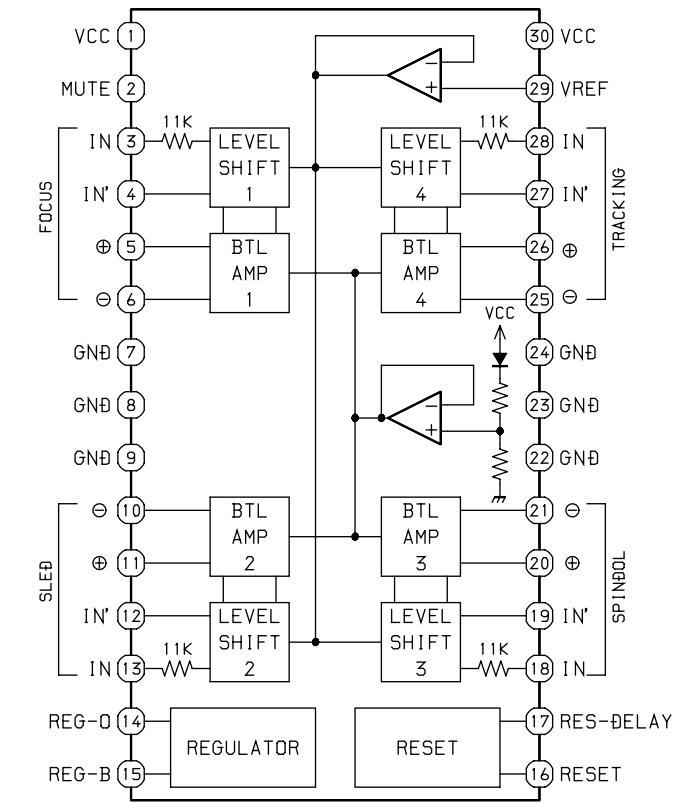
SP903	87-CD6-213-010	SPR-C,BATT (-)
SP904	87-CD6-213-010	SPR-C,BATT (-)

MOTOR C.B

M2	9X-262-576-910	MOTOR GEAR ASSY
PIN3	91-564-722-110	CONNECTOR 6P
SW1	91-572-085-120	LEAF SW

IC BLOCK DIAGRAM

IC, LA6541D



- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding

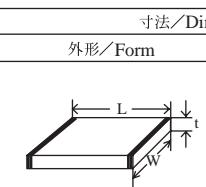
8 8 - □ □ □

A
抵抗部品コード
Resistor Code

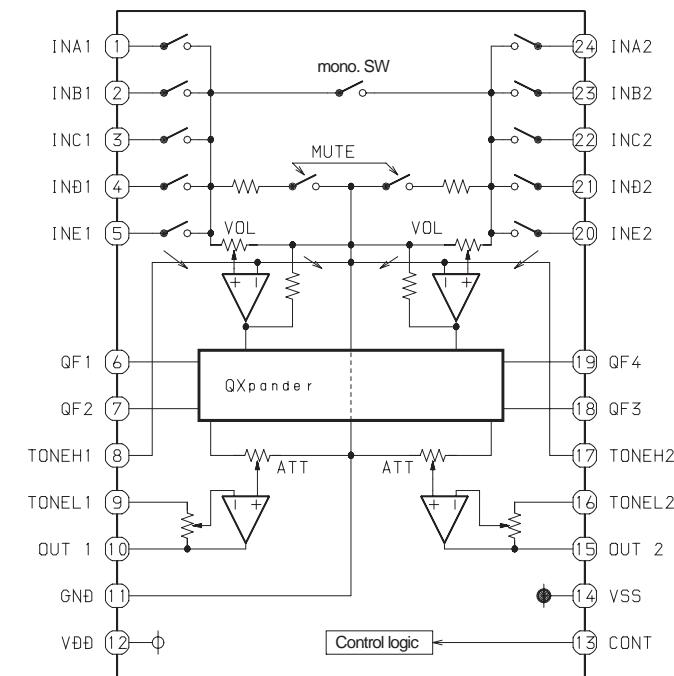
桁表示
Figure
抵抗値
Value of resistor

チップ抵抗 Chip resistor

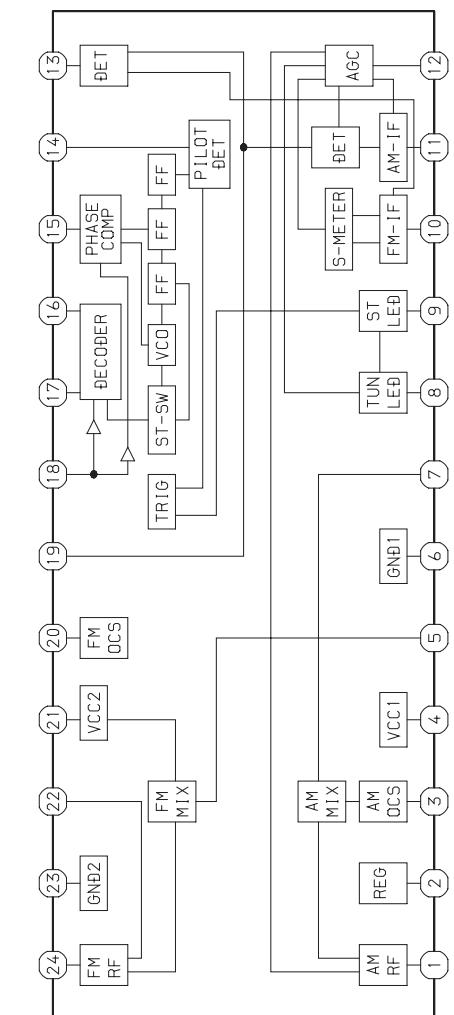
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)			抵抗コード : A Resistor Code : A
				外形/Form	L	W	
1/16W	1005	± 5%	CJ		1.0	0.5	104
1/16W	1608	± 5%	CJ		1.6	0.8	108
1/10W	2125	± 5%	CJ		2	1.25	0.45
1/8W	3216	± 5%	CJ		3.2	1.6	118
							128



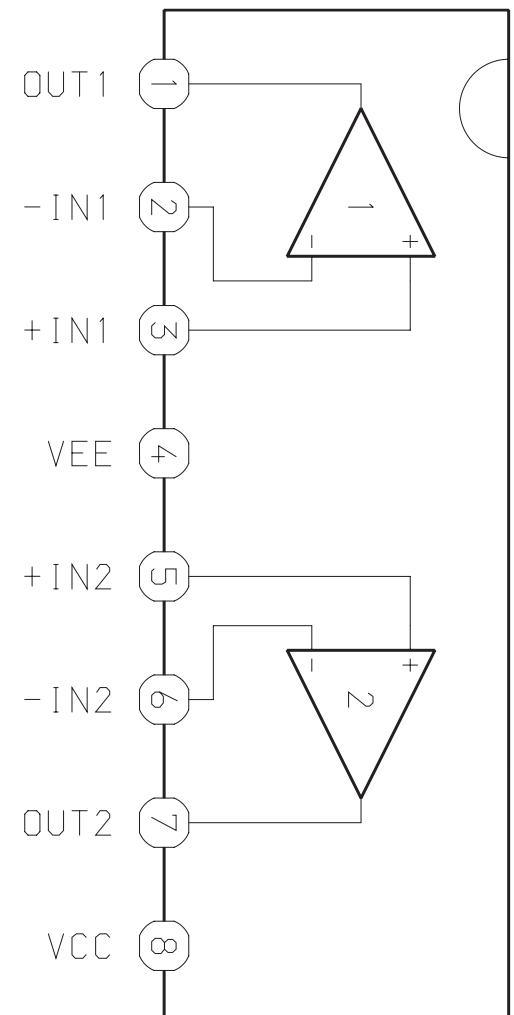
IC, M61509FP



IC, LA1828



IC, BA4560N



WIRING-1 (MAIN/CD)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A

B

C

D

E

F

G

H

I

J

K

B CD C. B

TO C FRONT C. B
CN602
FC403
1 3 5 7 8
SW205
CD DOOR SW
CNA205
TO CN403 TO CN205

A MAIN C. B

SW801
PB
REC

TAPE MECHANISM
ZZM-1 YR2NF

CNA801

RPH
L R
EH

SW801

TO CN801

TAPE MECHANISM
ZZM-1 YR2NF

CNA801

RPH
L R
EH

SW801

TO CN801

FROM C FRONT C. B CN601

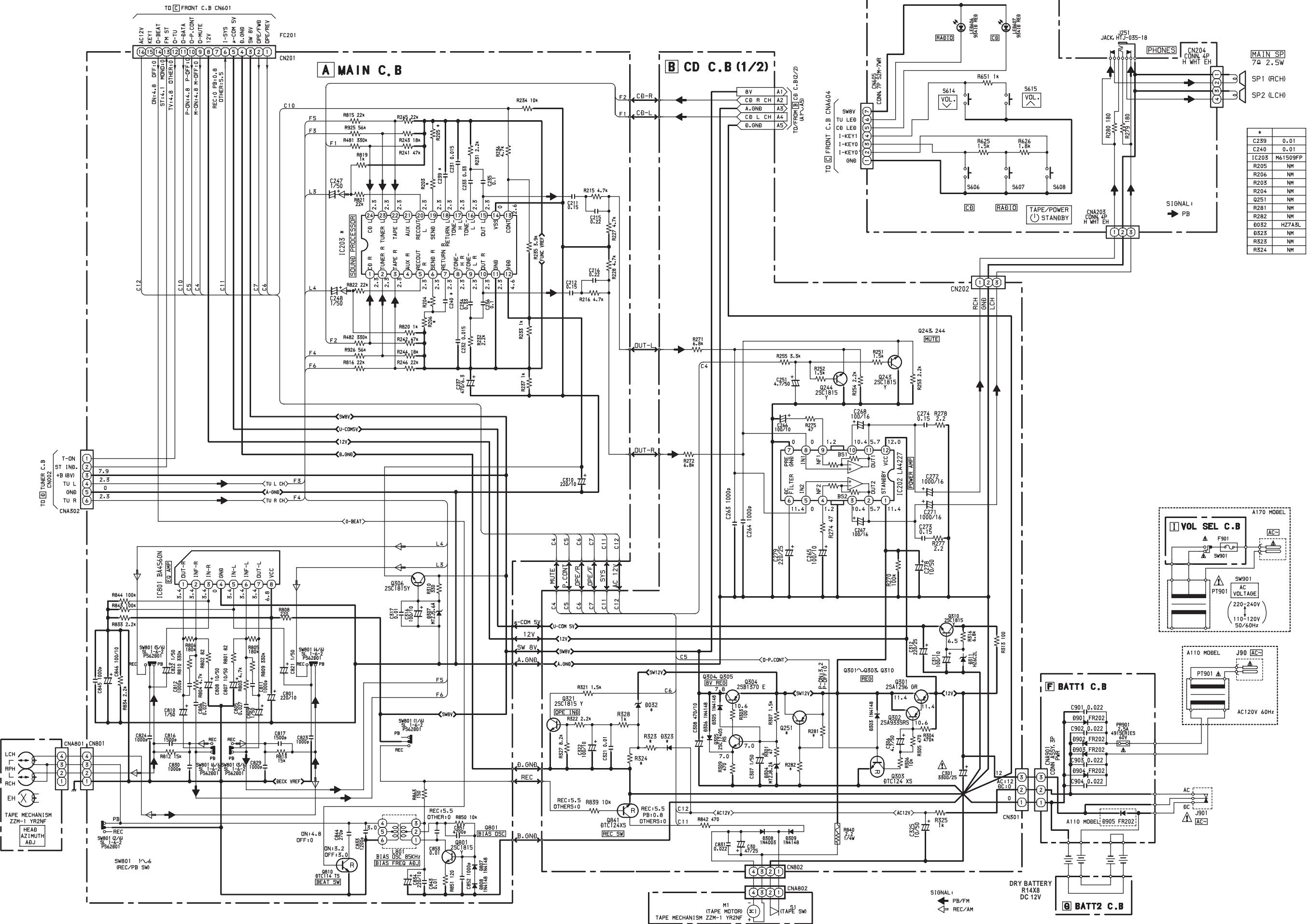
1 3 5 7 9 11 13 15 16
FC201

6 5 4 3 2 1
CNA402
TO H MOTOR C. B
(CD MECHANISM DA11T3C)

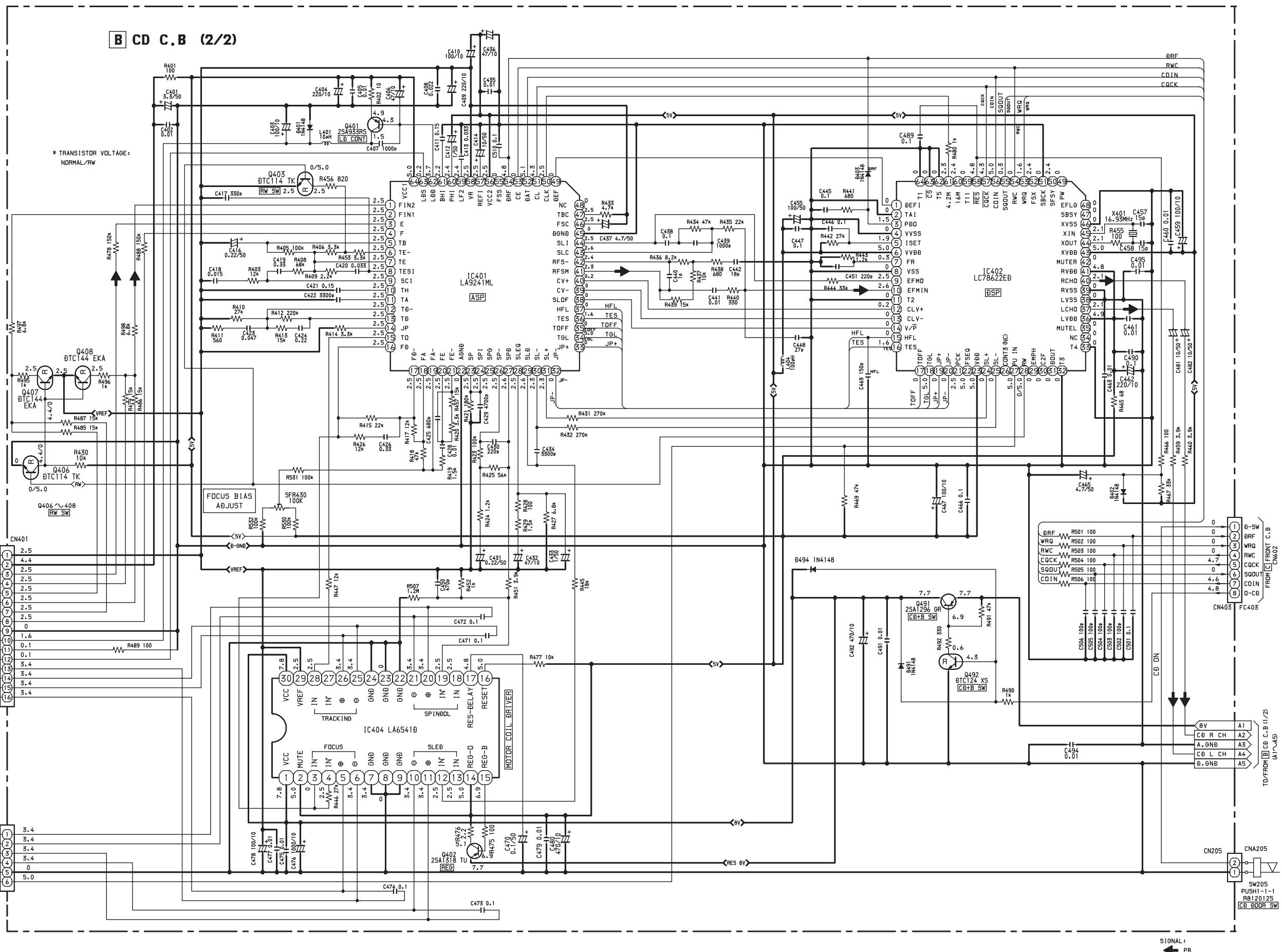
1 3 5 7 9 11 13 15 16
FC401
TO CD MECHANISM DA11T3C

1 3 5 7 9 11 13 15 16
FC401
TO TUNER C. B CN002
CNA302

SCHEMATIC DIAGRAM-1 (MAIN)

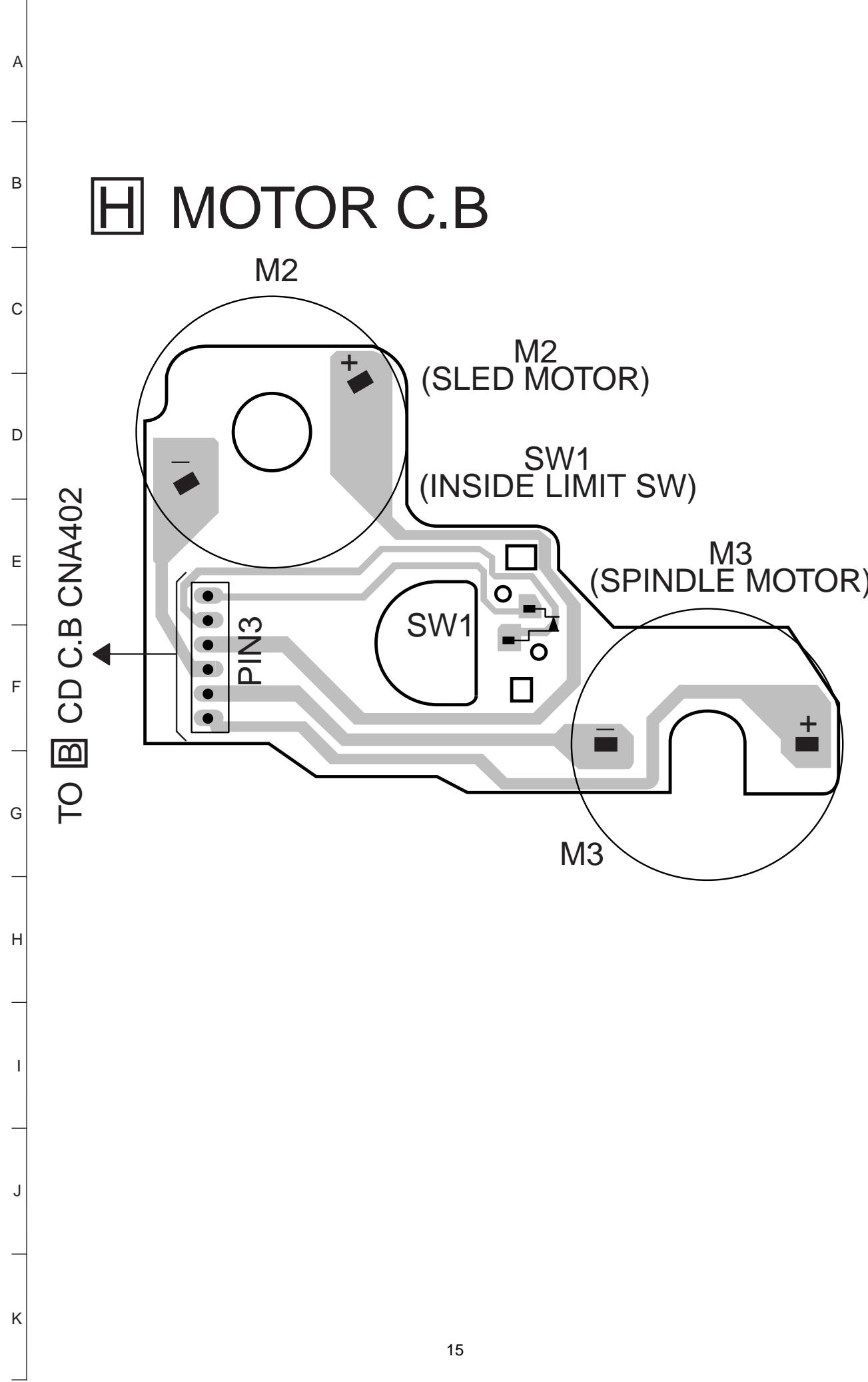


SCHEMATIC DIAGRAM-2 (CD)

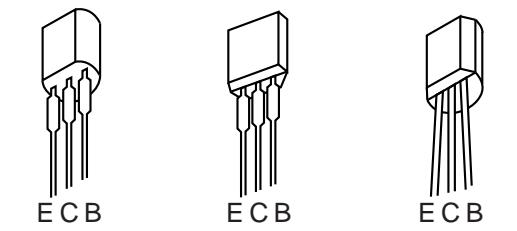


WIRING-2 (MOTOR)

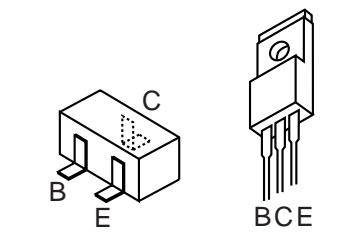
1 | 2 | 3 | 4 | 5 | 6 | 7



TRANSISTOR ILLUSTRATION



2SA1296
2SC1815
2SA933
2SC1740
DTC114TS
DTC124XS
2SA1318

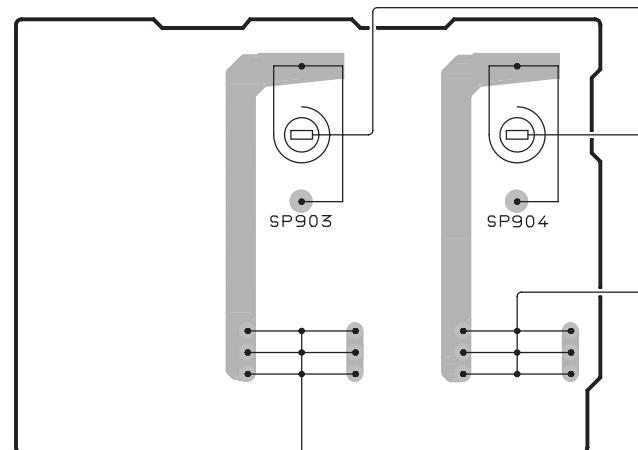


2SC2714
DTC114TK
DTC114YK
DTC124XX
DTC144TK
2SB1370

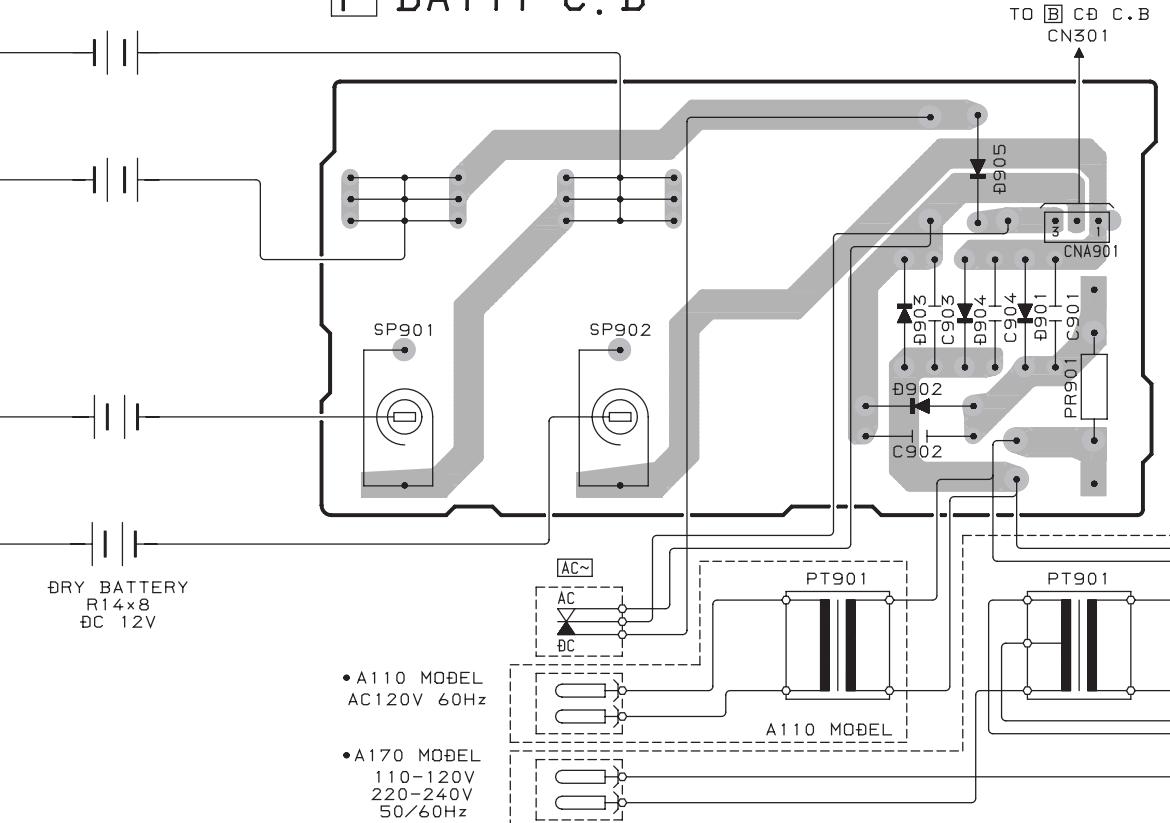
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A

G BATT2 C. B

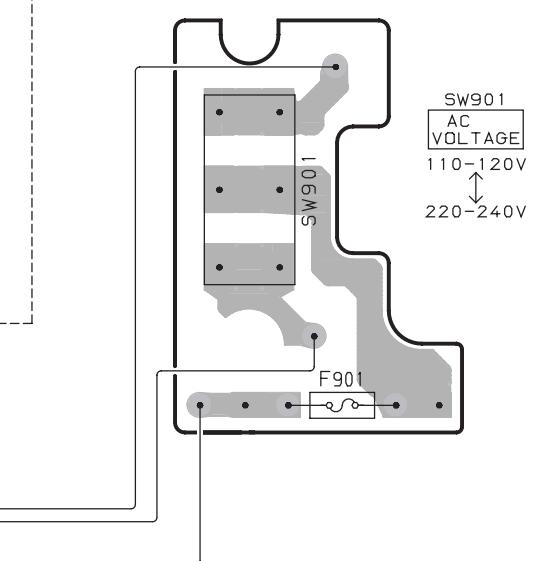


F BATT1 C. B

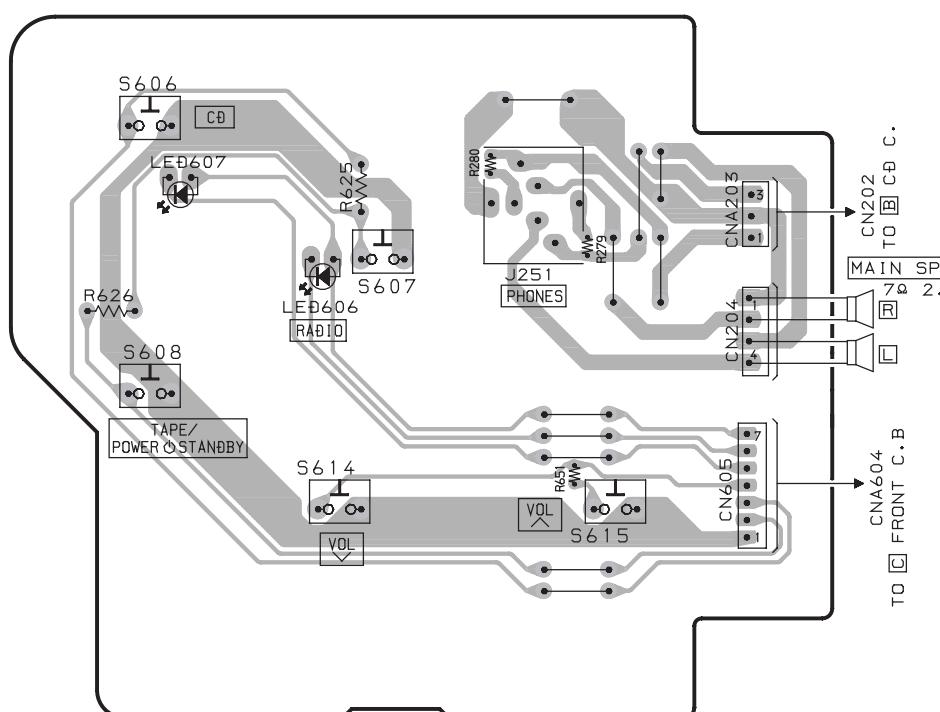


A170 MODEL

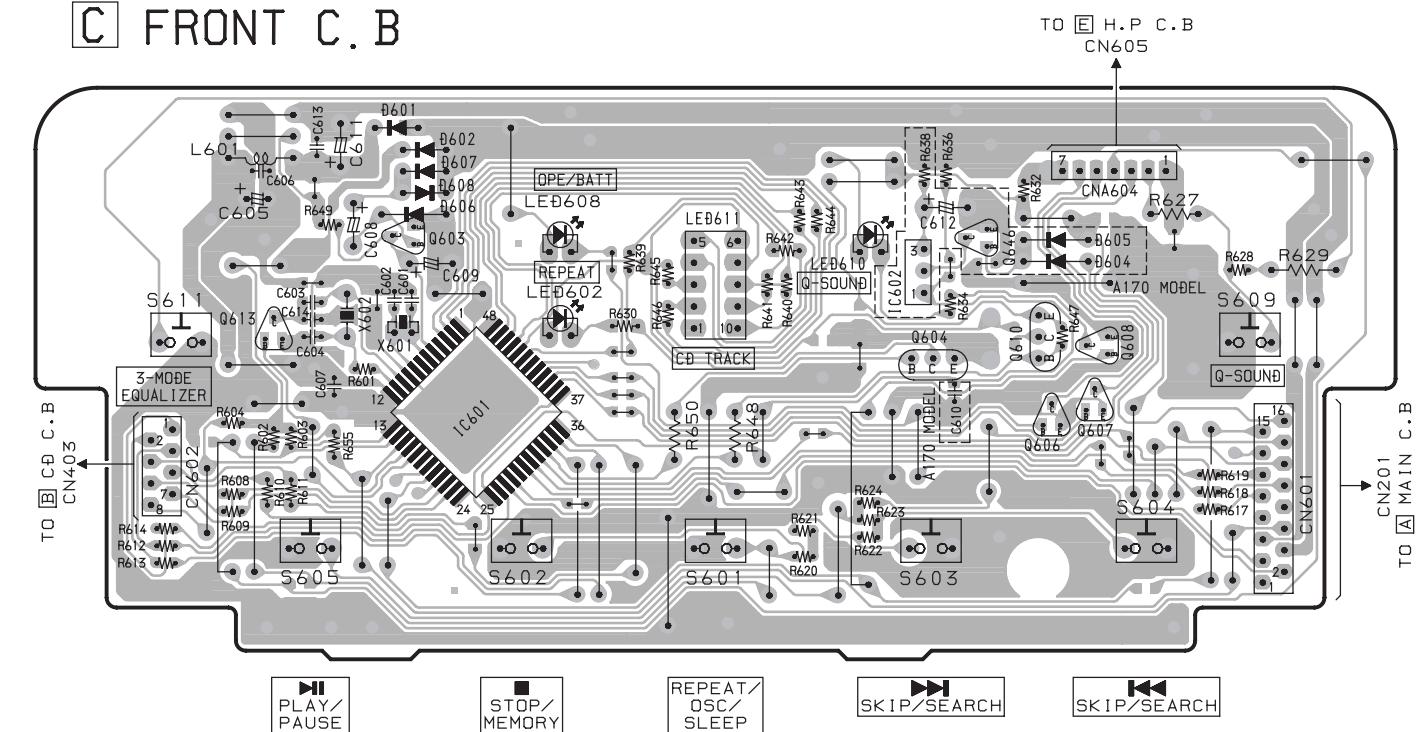
I VOL SEL C. B

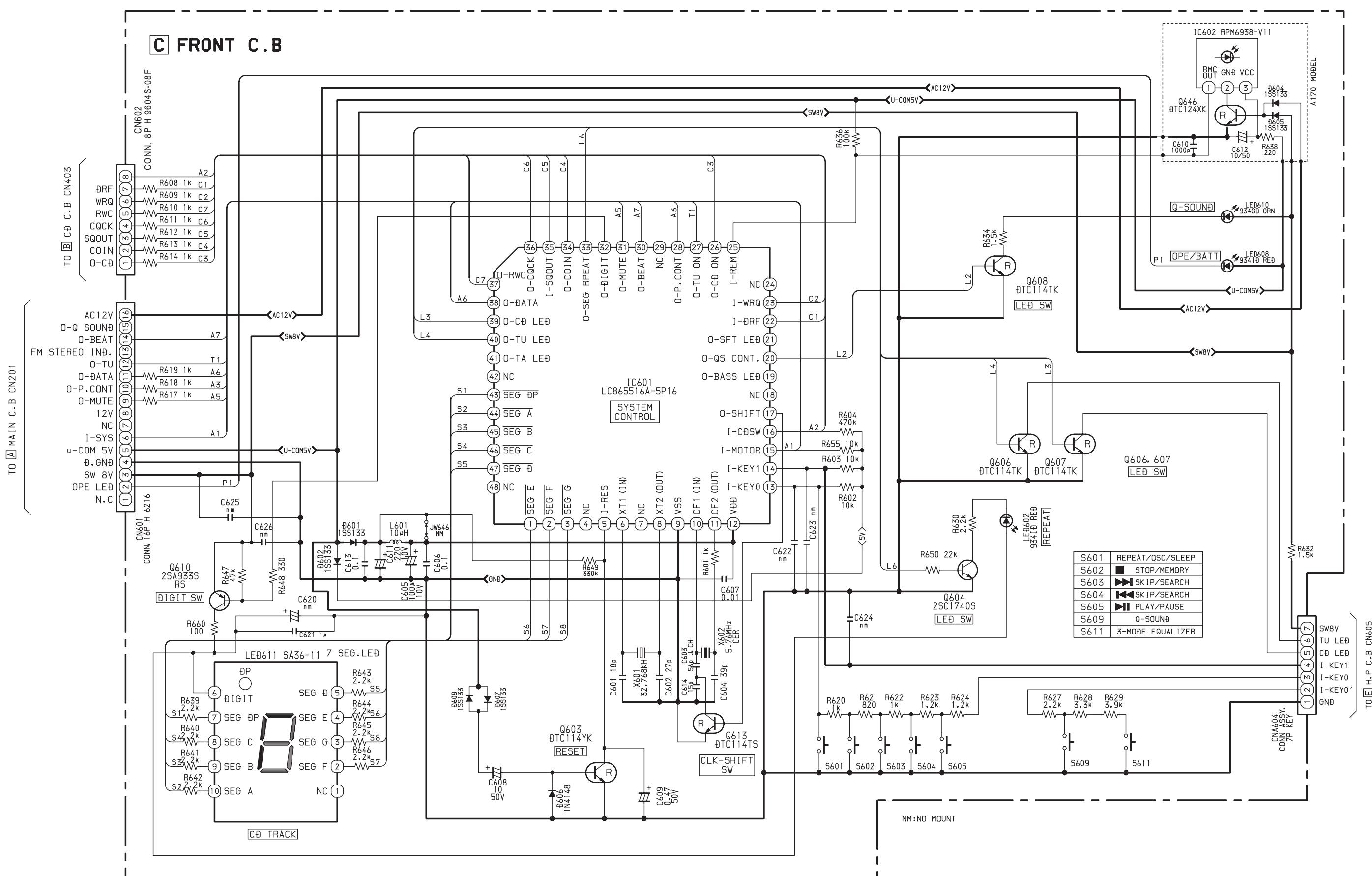


E HP C. B

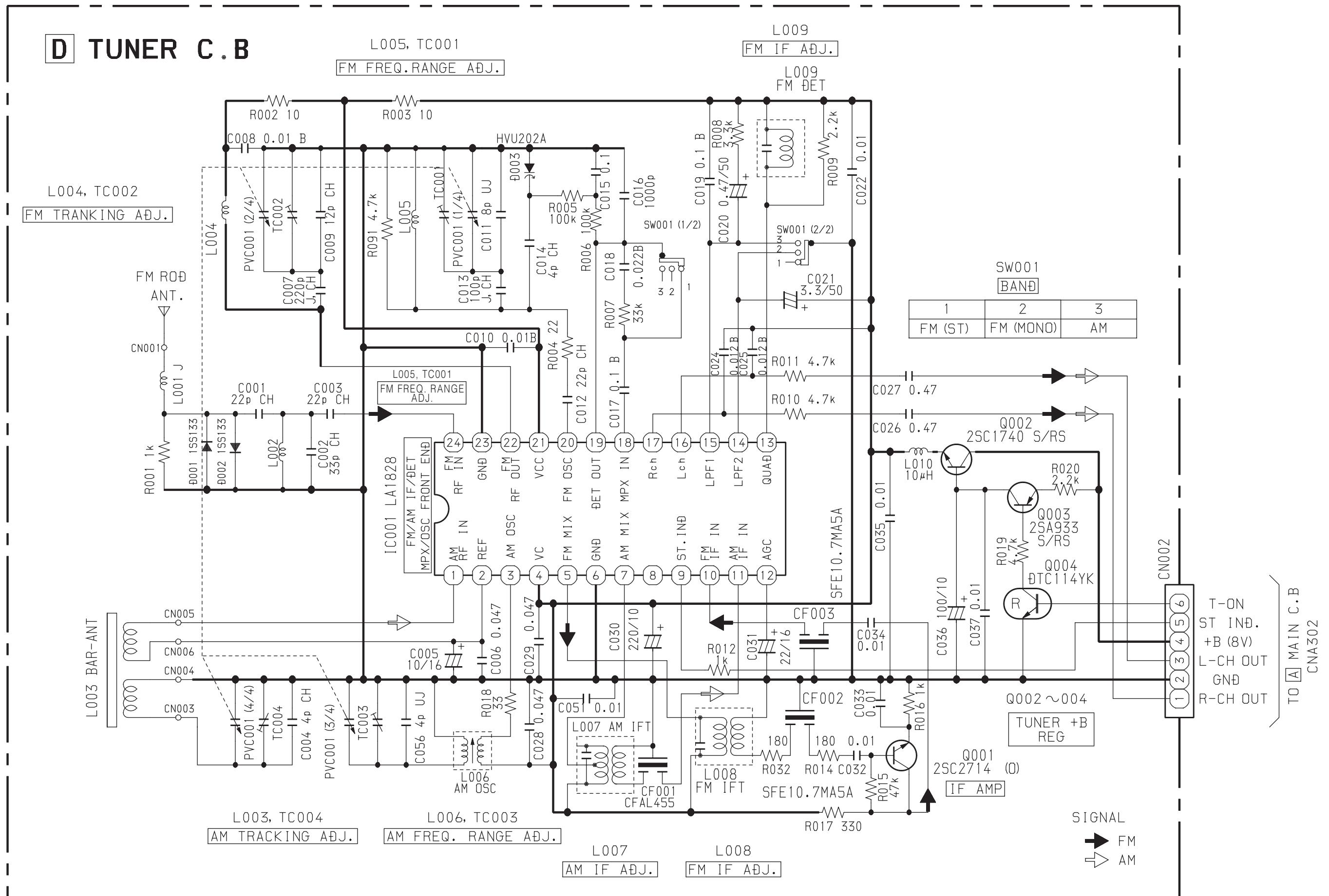


C FRONT C. B

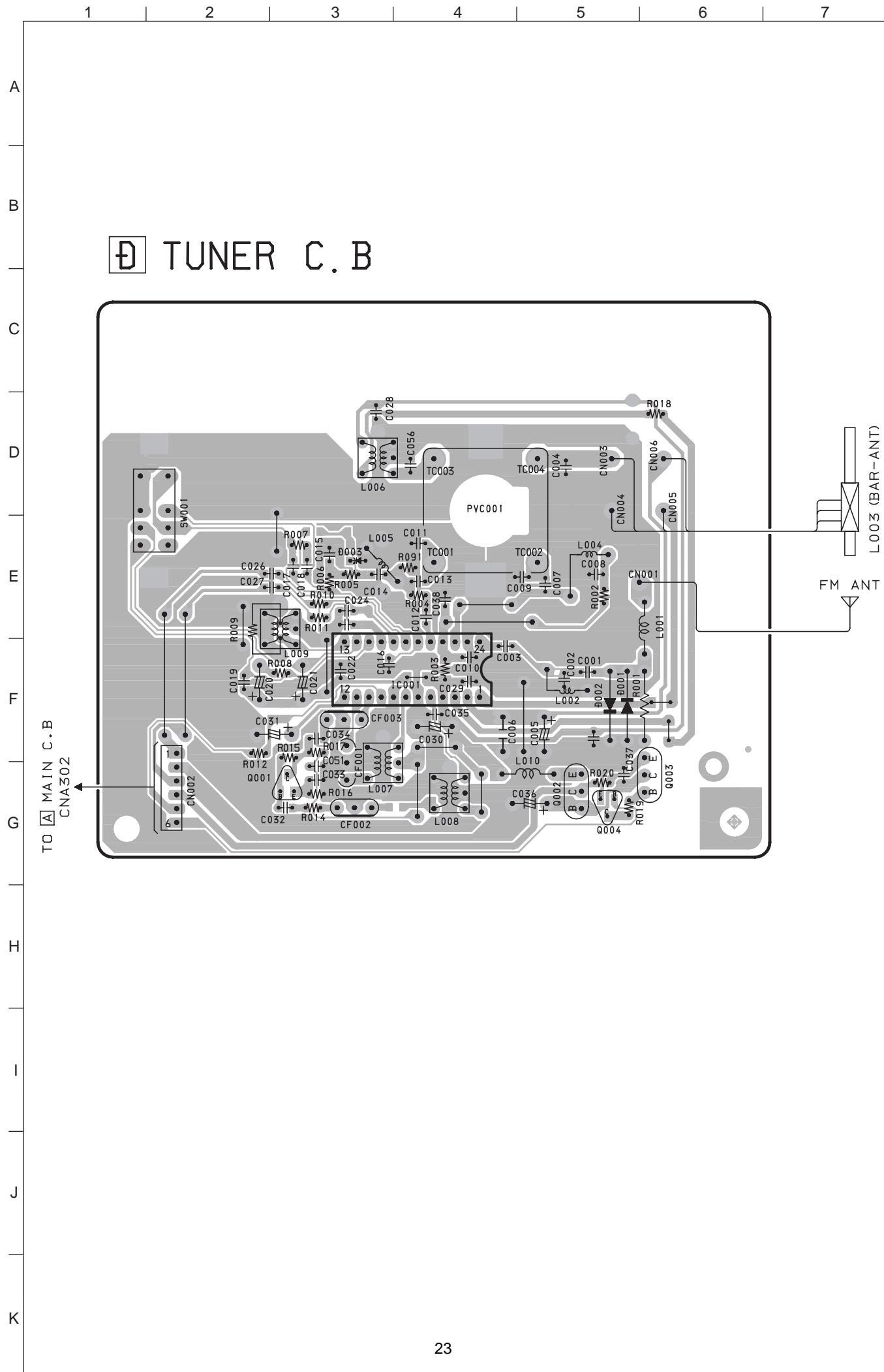




SCHEMATIC DIAGRAM-4 (TUNER)

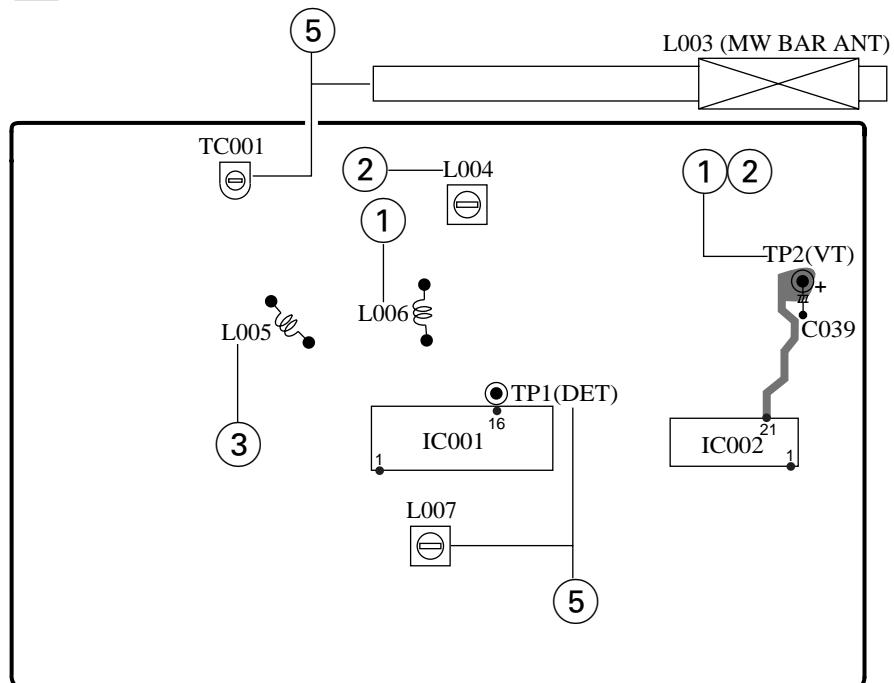


WIRING-4 (TUNER)

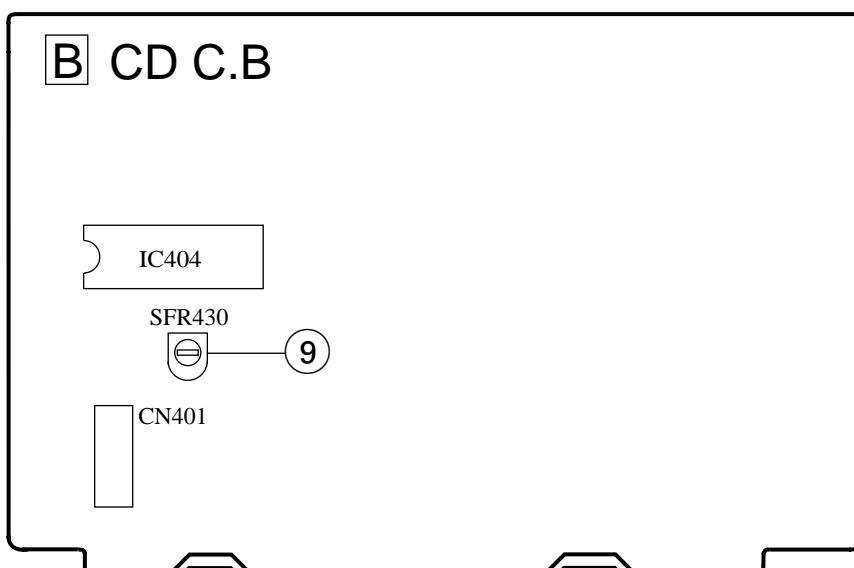


ELECTRICAL ADJUSTMENT

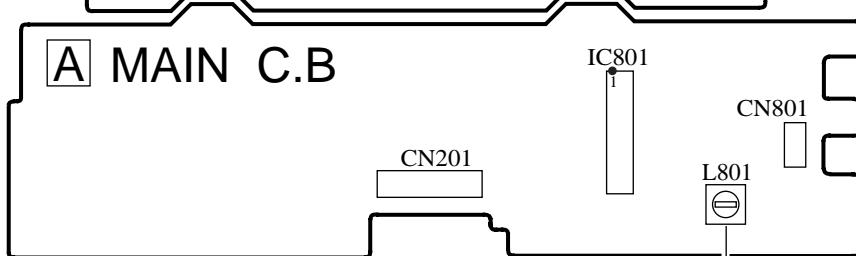
D TUNER C.B



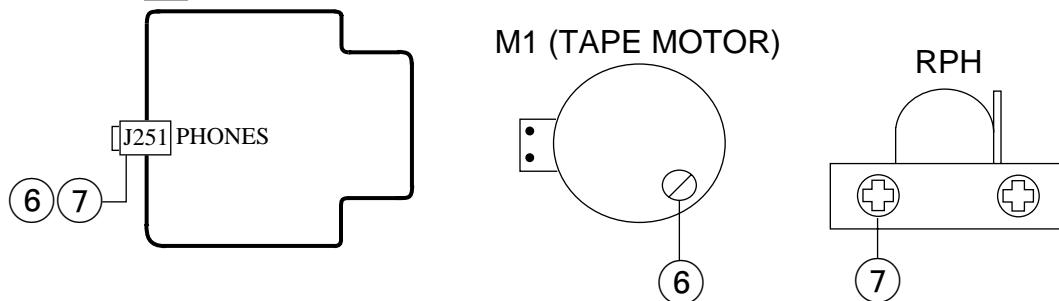
B CD C.B



A MAIN C.B



E H.P. C.B



< TUNER SECTION >

1. FM VT Adjustment
Settings :
 - Test point : TP2(VT)
 - Adjustment location : L006Method : Set to FM 108.0MHz and adjust L006 so that the test point voltage becomes $6.0V \pm 0.05V$.
2. MW VT Adjustment
Settings :
 - Test point : TP2(VT)
 - Adjustment location : L004Method : Set to MW 1000kHz (U), and adjust L004 so that the test point voltage becomes $3.75V \pm 0.05V$.
3. FM Tracking Adjustment
L005.....98.0MHz
4. MW Tracking Adjustment
L003.....600kHz
TC001.....1400kHz
5. AM IF Adjustment
Settings :
 - Test point : TP1(DET)
 - Adjustment location : L007Method : Adjust L007 so that the output level at 1400kHz becomes maximum.

< DECK SECTION >

6. Tape Speed Adjustment

Settings :

 - Test tape : TTA-100
 - Test point : J251 (PHONES jack)
 - Adjustment location : SFR of deck motor

Method : Play back the test tape and adjust SFR so that the frequency counter reads 3000Hz ± 30Hz.
7. Head Azimuth Adjustment

Settings :

 - Test tape : TTA-320
 - Test point : J251 (PHONES jack)
 - Adjustment location : Azimuth adjustment screw

Method : Play back the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
8. Bias frequency Adjustment

L801.....85kHz±0.5kHz

< CD SECTION >

9. FE Balance Adjustment

Settings : • Test point : IC401 PIN58 (VR), IC401 PIN 20 (FE)
• Adjustment location : SFR430

Method : Playback the disc and adjust SFR430 so that the test point voltage becomes 0V.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

Sensitivity: (THD 3%)	Less than 19dB (88.0MHz) Less than 18dB (98.0MHz) Less than 18dB (108.0MHz)
Signal to Noise Ratio: (Input 60dB)	More than 60dB (at 98.0MHz)

Distortion: (Input 60dB)	Less than 1.5% (at 98.0MHz)
Intermediate frequency:	$10.7\text{MHz} \pm 0.1\text{MHz}$
Stereo separation:	More than 22dB

< AM SECTION >

Sensitivity: (S/N 10dB)	Less than 45dB (at 600kHz) Less than 45dB (at 1000kHz) Less than 45dB (at 1400kHz)
Distortion: (Input 74dB)	Less than 1.5%
Intermediate frequency:	455kHz±3.5kHz

< CASSETTE SECTION >

Tape speed:	3000Hz+3%-2%
Wow & flutter:	Less than 0.35% (JIS RMS)
S/N ratio:	More than 35dB
Distortion:	Less than 3.0% (PB)
Noise (PB):	Less than 1mV (DC, MIN)
Erasing Ratio (W/O FILTER):	Less than 1.2mV (AC, MIN) More than 45dB

IC DESCRIPTION

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES “Track Error Sense” comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD-	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD-	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD- and FA- pins.
19	FA-	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND	—	Analog signal GND.
23	SP	O	Signal ended output of the CV+and CV- pin input signal.
24	SPI	I	Spindle amp input.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP-	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	“High Frequency Level” is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
41	RFSM	O	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	“Slice Level Control” is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which controls the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	“Tracking Balance Control” EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	“Detect RF” RF level detector output.
55	FSS	I	“Focus Search Select” focus search mode (\pm search/+ search) select pin.
56	VCC2	—	Servo system and digital system Vcc pin.
57	REFI	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

IC, LC78622ED

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PD0 output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—		Digital system GND. Be sure to connect to 0V.
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	T2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLK-	O	Disc motor control output. Three level output is possible using command.	
14	V/P	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP-	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and thesync signal which is internally generated agree.	
23	VDD	—	Digital system power supply pin.	
24	SL+	O	Moves the sled to outer circumference.	
25	SL-	O	Moves the sled to inner circumference.	
26	—	—	Not connected.	
27	PUIN	I	CD pickup inner switch detection.	
28	RW	O	Read, write signal.	
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	T3, T4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.

Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin.
48	EFLG	O	C1, C2, single and dual correction monitoring pin.
49	PW	O	Subcode P, Q, R, S, T, U and W output pin.
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby.
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connect to 0V when not in use.)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator.
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	<u>CQCK</u>	I	Command input read clock or subcode read input clock from SQOUT pin
58	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	T11	O	Test signal output pin. Use this pin as open (normally L output).
60	16M	O	16.9344 MHz output pin.
61	4.2M	O	4.2336 MHz output pin.
62	T5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	<u>CS</u>	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	T1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

IC, LC865516A-5P16

Pin No.	Pin Name	I/O	Description
1	SEG E	O	SEG E control.
2	SEG F	O	SEG F control.
3	SEG G	O	SEG G control.
4	NC	—	Not connected.
5	I-RES	I	Micro processor reset input
6	XT(IN)	I	Connected to an external 32.768 kHz crystal oscillator.
7	NC	—	Not connected.
8	XT2(OUT)	O	Connected to an external 32.768 kHz crystal oscillator.
9	VSS	—	GND.
10	CF1(IN)	I	Connected to an external 5.76 MHz ceramic filter.
11	CF2(OUT)	O	Connected to an external 5.76 MHz ceramic filter.
12	VDD	—	Microprocessor power supply (+5V).
13	I-KEY0	I	Key AD input. (AD)
14	I-KEY1	I	Key AD input. (AD)
15	I-MOTOR	I	Deck status input. (AD)
16	I-CD SW	I	CD door switch status input.
17	O-SHIFT	O	Main clock shift output.
18	NC	—	Not connected.
19	O-BASS LED	O	BASS LED ON/OFF control output. (Not connected)
20	O-QS LED	O	Q sound LED ON/OFF control output. (Not connected)
21	O-SFT LED	—	Not connected.
22	I-DRF	I	CD RF level detection input.
23	I-WRQ	I	CD subcode Q standby input.
24	NC	—	Not connected.
25	I-REM	—	Remote control input.
26	O-CD ON	O	CD power control output.
27	O-TU ON	O	TU power control output.
28	O-P.CONT	O	The main power supply control output.
29	NC	—	Not connected.
30	O-BEAT	O	Beat control.
31	O-MUTE	O	Main mute output.
32	O-DIGIT	O	7-segment LED power supply control output.
33	O-SEG RPEAT	O	REPEAT LED ON/OFF control output.
34	O-COIN	O	CD command output.
35	I-SQOUT	I	CD subcode Q input.
36	O-CQCK	O	CD command/CLK for subcode.
37	O-WRC	O	CD read/write control output.
38	O-DATA	O	Data output to M62349FP.
39	O-CD LED	O	LED ON/OFF control output for the CD function.
40	O-TU LED	O	LED ON/OFF control output for the TU function.
41	O-TA LED	O	LED ON/OFF control output for the TA function. (Not connected)

Pin No.	Pin Name	I/O	Description
42	NC	—	Not connected.
43	<u>SEG DP</u>	O	SEG DP control.
44	<u>SEG A</u>	O	SEG A control.
45	<u>SEG B</u>	O	SEG B control.
46	<u>SEG C</u>	O	SEG C control.
47	<u>SEG D</u>	O	SEG D control.
48	NC	—	Not connected.

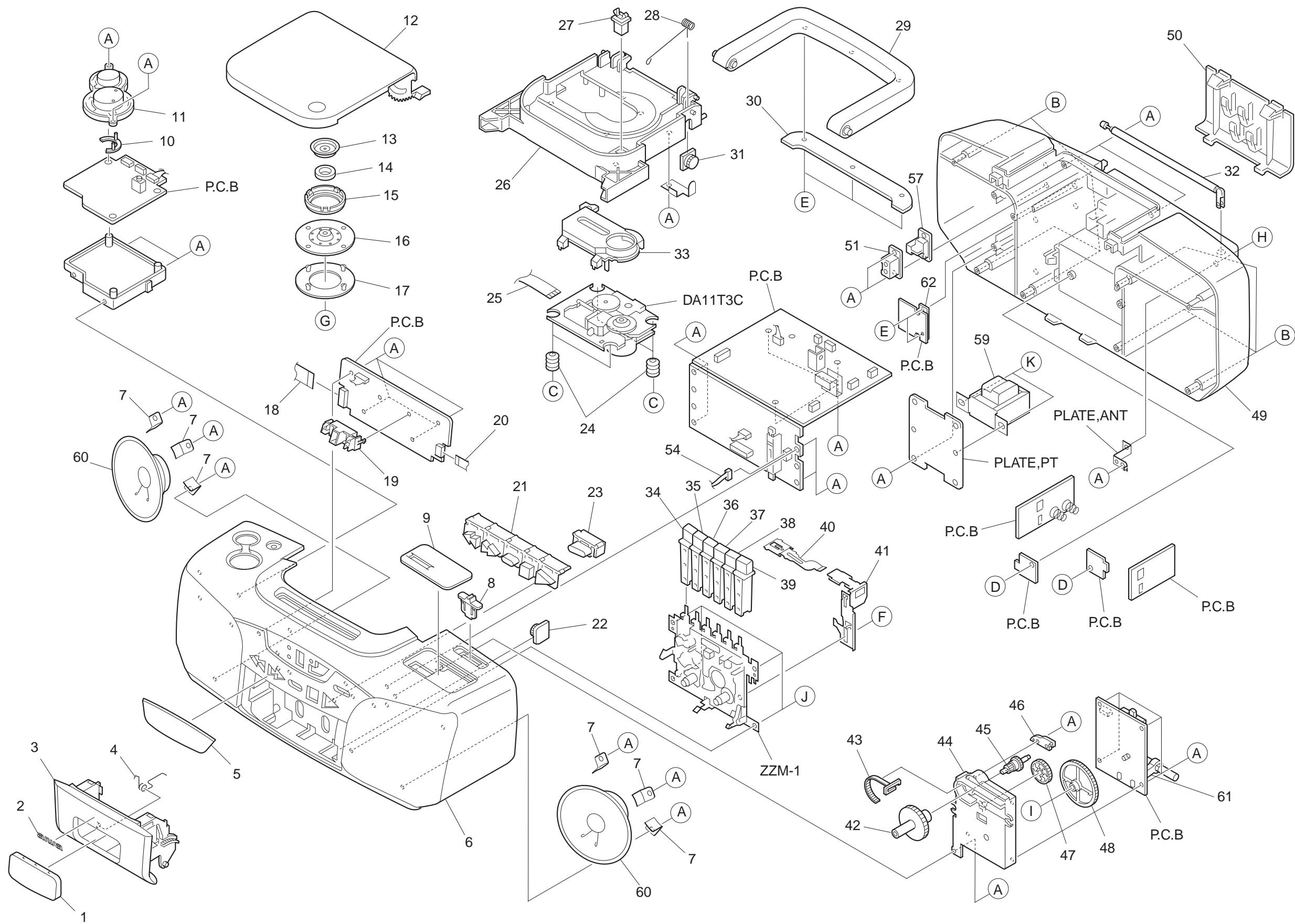
MECHANICAL PARTS LIST 1/1

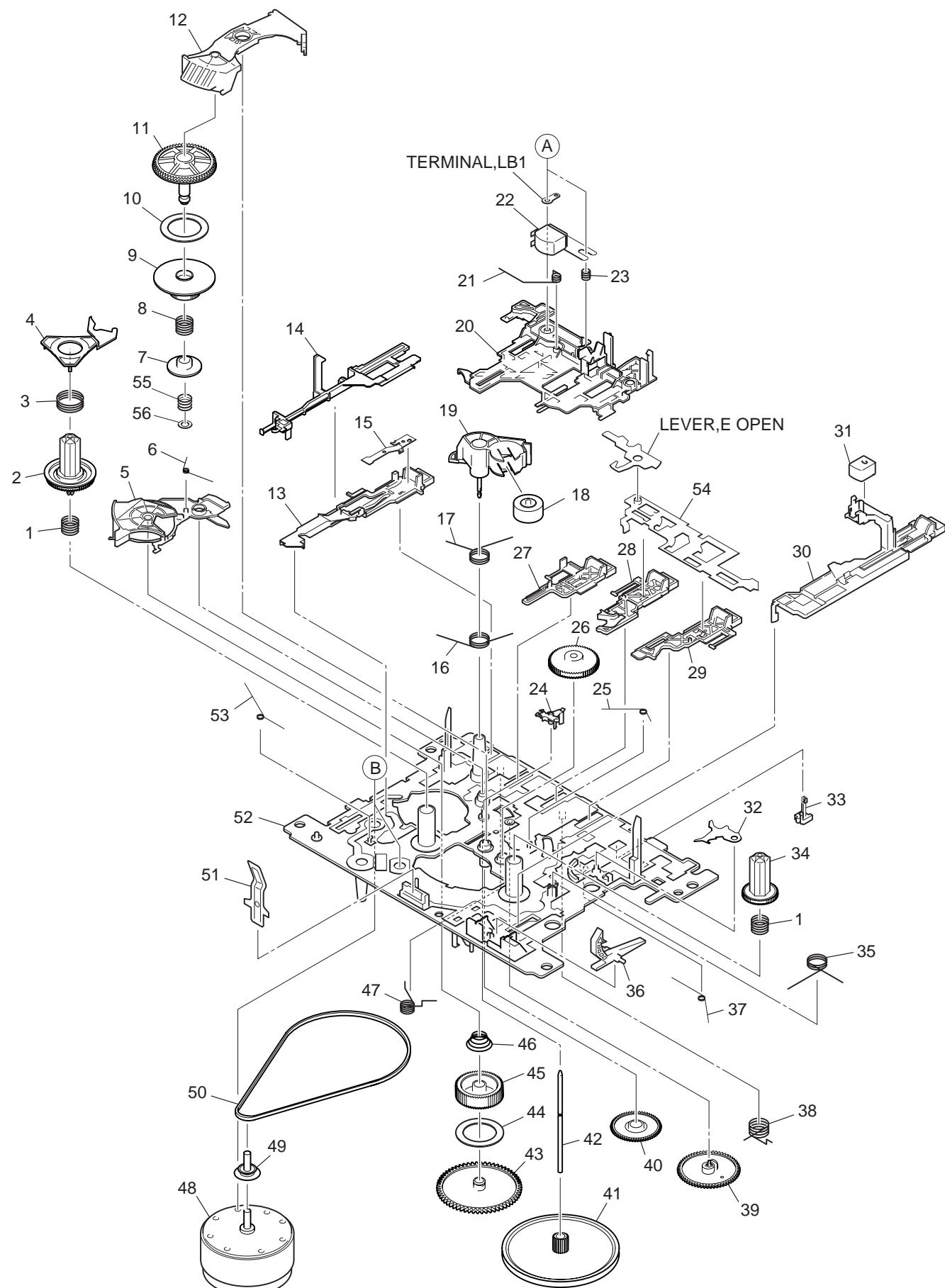
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CDA-006-010		WINDOW,CASS	40	8A-CDA-221-010		SPR-P,REC
2	87-B00-010-010		BADGE, AIWA 30.5-5.2 S 2.5L	41	8A-CDA-220-010		PLATE,REC
3	8A-CDA-003-010		LID,CASS	42	8A-CDA-021-010		KNOB,RTRY TU
4	8A-CDA-212-010		SPR-T,CASS	43	8A-CDA-013-010		POINTER,TU
5	8A-CDA-008-010		WINDOW,LED<A110 U<S>>	44	8A-CDA-201-010		HLDR,TU
5	8A-CDL-031-010		WINDOW,LED<A170 LH<S>>	45	8A-CDA-216-010		GEAR,TU B
6	8A-CDA-028-010		CABI ASSY,FRONT	46	8A-CDA-203-010		GUIDE,GEAR
7	8A-CDA-206-010		HLDR,SPKR	47	8A-CDA-202-010		GEAR,RELAY
8	8A-CDA-020-010		KNOB,SL BAND	48	8A-CDA-215-010		DRUM,TU
9	8A-CDA-009-010		WINDOW,TU	49	8A-CDA-002-010		CABI,REAR<A110 U<S>>
10	8A-CDA-007-010		LENS,LED	49	8A-CDA-030-010		CABI,REAR LH<A170 LH<S>>
11	8A-CDA-019-010		KEY,VOL	49	8A-CDL-030-010		CABI,REAR LH<A170 LH<S>>
12	8A-CDA-004-010		LID,CD	50	8A-CDA-005-010		LID,BATT
13	8A-CDA-213-010		COVER, CHUCK	51	8Z-CD5-634-010		COVER,AC SOCKET
14	87-036-368-010		MAGNET	52	8A-CDA-626-010		CONN ASSY,2P DOOR
15	8A-CDA-207-010		HLDR,CHUCK	53	8A-CDA-630-010		CONN ASSY,4P RPH
16	8Z-CDB-170-010		BASE,CHUCK	54	8A-CDA-633-010		CONN ASSY,4P SP
17	88-CD9-211-210		RING,CHUCK	55	8A-CDA-631-010		CONN ASSY,4P TA-ME
18	8A-CDA-620-010		FF-CABLE,16P FR-MAIN	56	8A-CDA-204-010		HLDR,VOL<A170 LH<S>>
19	8A-CDA-208-010		HLDR,LED	57	87-A60-178-010		JACK,AC E W/SW<A170 LH<S>>
20	8A-CDA-622-010		FF-CABLE,8P CD-FR	57	87-A60-177-010		JACK,AC U W/SW<A110 U<S>>
21	8A-CDA-016-010		KEY,CD	58	8A-CDA-018-010		KEY,QSOUND
22	87-063-165-010		OILL-DMPR 150	59	8A-CDA-612-010		PT,E 2.5W<A170 LH<S>>
23	8A-CDA-017-010		KEY,MODE	59	8A-CDA-611-010		PT,U 2.5W<A110 U<S>>
24	88-CH6-220-010		CUSHION,CD A	60	8A-CH4-682-010		SPKR,10- 70HM<A110 U<S>>
25	8A-CDA-621-010		FF-CABLE,16P CD-RF	60	88-CD9-626-010		SPKR,100 70HM 3W<A170 LH<S>>
26	8A-CDA-012-010		CHAS,CD	61	88-CD6-661-010		HLDR,BAR ANT.<A110 U<S>>
27	87-036-389-010		SW,PUSH LOCK	62	87-A91-369-010		SW,AC SL 2 2 2 SDKGA41700<A170 LH<S>>
28	8A-CDA-211-010		SPR-T,CD	A	87-721-096-410		QT2+3-10 GLD
29	8A-CDA-010-010		HANDL,ARM	B	87-753-104-410		VT2+3-30 W/0 BLK<A170 LH<S>>
30	8A-CDA-011-010		HANDL,COVER	C	8A-CK4-223-010		S-SCREW,CD
31	87-NF8-220-010		DMPR,150<A110 U<S>>	D	87-067-566-010		TAPPING SCREW, VFTT+3-6<A170 LH<S>>
32	8Z-CH4-640-010		ANT,ROD	E	87-352-075-210		VT2+2.6-10<A170 LH<S>>
33	8Z-CDB-169-010		PANEL,CD SANYO	F	8A-CDA-222-010		S-SCREW,CASS+2.6-4<A110 U<S>>
34	8A-CDA-027-010		KEY,PAUSE	H	87-253-097-410		U+3-12 BLK<A110 U<S>>
35	8A-CDA-026-010		KEY,STOP	I	87-261-073-410		V+2.6-6<A110 U<S>>
36	8A-CDA-025-010		KEY,FF	J	87-751-096-410		VT2+3-10 GLD
37	8A-CDA-024-010		KEY,REW				
38	8A-CDA-023-010		KEY,PLAY				
39	8A-CDA-022-010		KEY,REC				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		



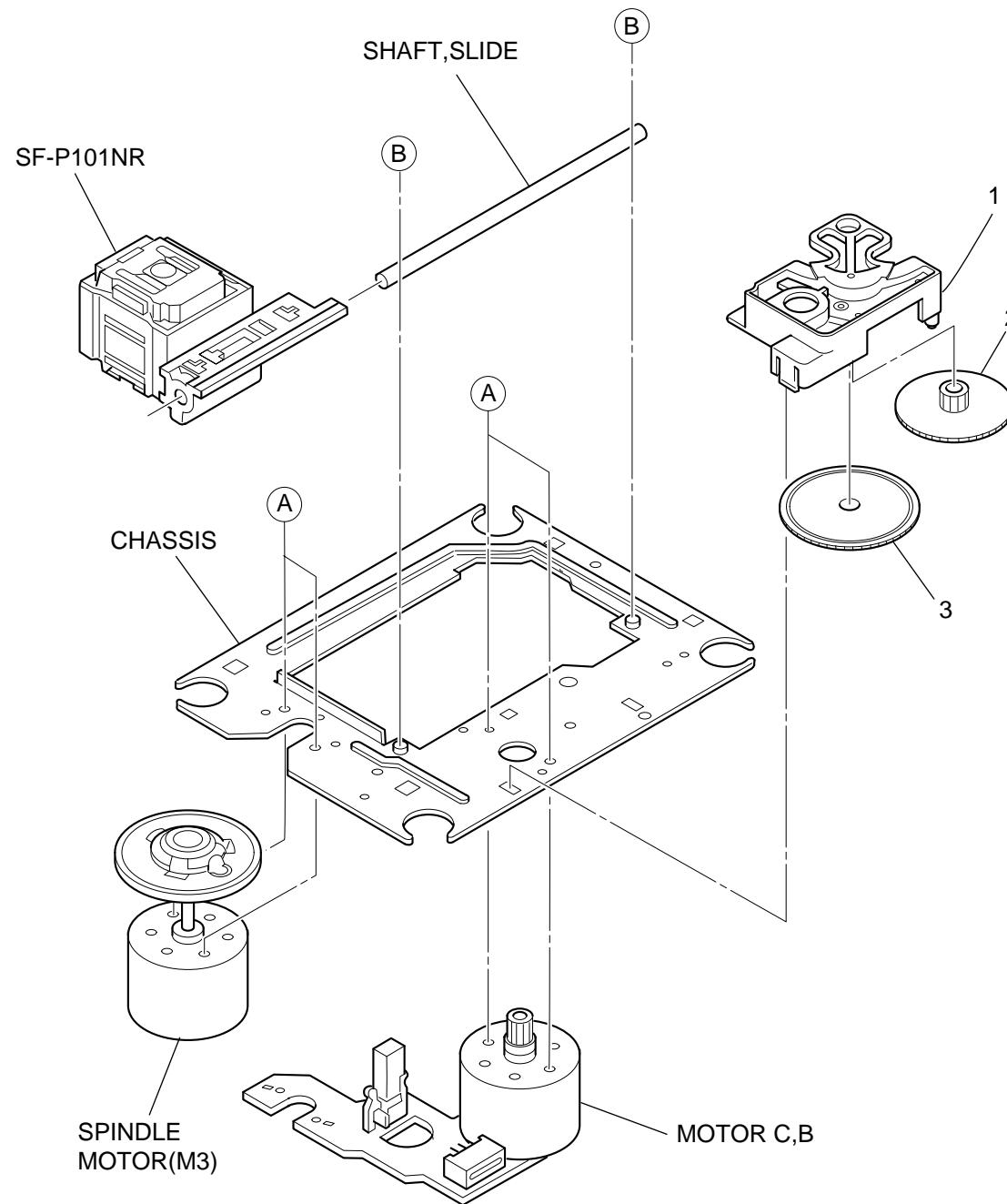


TAPE MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM1-254-210	SPR-C, REEL R		31	87-A91-533-010	HEAD, EH PH-K380	
2	8Z-ZM1-225-110	GEAR, REEL R		32	8Z-ZM1-215-010	LEVER, REC LOCK	
3	8Z-ZM1-253-110	SPR-C, AUTO SENSOR		33	87-A91-492-010	SW, LEAF MSW18560	
4	8Z-ZM1-217-110	LEVER, AUTO SENSOR		34	8Z-ZM1-226-010	GEAR, REEL L	
5	8Z-ZM1-212-110	LEVER, T-UP		35	8Z-ZM1-241-010	SPR-T, PLAY	
6	8Z-ZM1-245-010	SPR-T, AUTO		36	8Z-ZM1-220-010	LEVER, REC SENSOR	
7	8Z-ZM1-236-010	CLR, SLIP FF/REW		37	8Z-ZM1-249-010	SPR-T, FR	
8	8Z-ZM1-252-010	SPR-C, FF/REW		38	8Z-ZM1-242-110	SPR-T, FF/REW	
9	8Z-ZM1-230-010	GEAR, SLIP FF/REW A		39	8Z-ZM1-229-010	GEAR, CAM	
10	8Z-ZM1-266-010	FELT, FF/REW		40	8Z-ZM1-232-010	GEAR, IDL FF/REW	
11	8Z-ZM1-231-010	GEAR, SLIP FF/REW B		41	8Z-ZM1-234-010	FLY-WHL, ZZM-1	
12	8Z-ZM1-213-010	LEVER, FF/REW		42	8Z-ZM1-267-010	SHAFT, CAPSTAN 2	
13	8Z-ZM1-209-110	LEVER, PAUSE		43	8Z-ZM1-228-010	GEAR, SLIP T-UP B	
14	8Z-ZM1-222-010	LEVER, E-LOCK M		44	8Z-ZM1-265-010	FELT, T-UP	
15	8Z-ZM1-256-010	SPR-P, PAUSE		45	8Z-ZM1-227-010	GEAR, SLIP T-UP A	
16	8Z-ZM1-244-010	SPR-T, T-UP		46	8Z-ZM1-251-110	SPR-C, T-UP SLIP	
17	8Z-ZM1-247-210	SPR-T, PINCH		47	8Z-ZM1-243-210	SPR-T, STOP/PAUSE	
18	8Z-ZM1-261-110	ROLLER ASSY, PINCH		48	87-A91-531-010	MOT, MS15C2L	
19	8Z-ZM1-221-010	LEVER, PINCH		49	8Z-ZM1-271-010	PULLEY, MOT ZZM-1	
20	8Z-ZM1-205-210	LEVER, PLAY		50	8Z-ZM1-264-010	BELT, MAIN S	
21	8Z-ZM1-248-010	SPR-T, BRG		51	8Z-ZM1-260-010	SPR-P, CASSETTE	
22	87-A90-403-110	HEAD, RPH MS15R		52	8Z-ZM1-201-310	CHAS ASSY, ZZM-1	
23	84-ZM2-227-310	SPR-C, AZIMUTH		53	8Z-ZM1-255-110	SPR-T, E-LOCK	
24	8Z-ZM1-216-010	LEVER, AUTO		54	8Z-ZM1-214-010	LEVER, LOCK	
25	8Z-ZM1-246-010	SPR-T, AUTO 2		55	8Z-ZM1-257-110	SPR-C, F/R	
26	8Z-ZM1-233-010	GEAR, IDL REW		56	8Z-ZM1-275-010	W-L, 1.47-4-0.25	
27	8Z-ZM1-208-010	LEVER, STOP		A	84-ZM2-242-010	S-SCREW, AZ1-2-6.4	
28	8Z-ZM1-207-010	LEVER, FF		B	8Z-ZM1-270-110	V+2.6 ZZM-1	
29	8Z-ZM1-206-010	LEVER, REW					
30	8Z-ZM1-211-110	LEVER, REC 2					

CD MECHANISM EXPLODED VIEW 1/1



CD MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S2-121-A28-400		COVER GEAR
2	S2-511-A21-000		GEAR MIDDLE
3	S2-511-A21-100		GEAR, DRIVE
A	S1-PN2-03R-OSE		SCR PAN PCS 2-3
B	87-261-073-410		SCR S-TPG FLT 2.6-6
ALL	M8-ZZK-E90-070		DA11T3C

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CDL-902-010		IB,LH(ESP)FM<A170 LH<S>>
1	8A-CDA-903-010		IB,U(ESF)FM<A110 U<S>>
2	8Z-CDK-962-010		RC UNIT,RC-ZAT02(VS)<A170 LH<S>>
3	87-A80-036-010		AC CORD SET ASSY,E W/FLTR VOL <A170 LH<S>>
3	87-A80-109-010		AC CORD, HK7281 BLK U<A110 U<S>>
4	87-A90-312-010		PLUG,CONVERSION WTN-1157R1 <A170 LH<S>>

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111